

IN THE CLAIMS

This listing of claims will replace all prior listings of claims in the application.

1. (Currently amended) A transparent polyolefin resin sheet having a multilayered structure wherein at least one surface layer is made of a first polypropylene resin having a modulus of elasticity of at least 500 MPa and at least one other layer is made of a second transparent polyolefin resin, the transparent polyolefin resin sheet having the following properties:

(a) a modulus of elasticity from 20 MPa to 1,000 MPa;

(b) an average length of a foreign substance that has a refractive index different from a non-crystalline resin composition occupying the most volume fraction being less than 10 μm , and the number of foreign substances in any section of the sheet being less than 500 foreign substances/ mm^2 ; ~~and~~

(c) a total haze of less than 6%; and

(d) less than 0.2 μm of surface-roughness Ra of the at least one surface layer.

2. (Previously presented) The transparent polyolefin resin sheet according to Claim 1, said multilayered structure having at least three layers including both the surface layers and an intermediate layer, said surface layers being composed of said polypropylene resin, and said intermediate layer being composed of said transparent polyolefin resin.

3. (Currently amended) The transparent polyolefin resin sheet according to Claim 1, wherein the modulus of elasticity for the resin sheet is from 50 to 800 Mpa and a gloss is 100% to 135% for the resin sheet and said haze is less than 6% as measured for said resin sheet having a thickness of 200 μm .

4. (Currently amended) The transparent polyolefin resin sheet according to Claim 1, wherein said first polypropylene

resin is selected from ~~a group consisting of~~ homo-polypropylene, ethylene-propylene random copolymer having an ethylene content ranging from 0.1 wt% to 10 wt%, and ethylene-butene-propylene random copolymer having an ethylene and butene content ranging from 0.1 wt% to 10 wt%.

5. (Previously presented) The transparent polyolefin resin sheet according to Claim 2, wherein said first polypropylene resin is selected from homo-polypropylene, ethylene-propylene random copolymer having an ethylene content ranging from 0.1 wt% to 10 wt%, and ethylene-butene-propylene random copolymer having an ethylene and butene content ranging from 0.1 wt% to 10 wt%.

6. (Previously presented) The transparent polyolefin resin sheet according to Claim 1, wherein said transparent polyolefin resin is a low-stereoregular polypropylene type resin having a ratio of mmmm, which is an isotactic pentad, ranging from 50% to 90% in a pentad ratio measured by using ¹³C-NMR with respect to stereoregularity of homo-polypropylene.

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7. (Previously presented) The transparent polyolefin resin sheet according to Claim 6, wherein a value of rrrr/(1-mmmm) of said low-stereoregular polypropylene type resin ranges from 15% to 50%, wherein rrrr represents the state of syndiotacticity.

8. (Currently amended) The transparent polyolefin resin sheet according to Claim 6, wherein said low-stereoregular polypropylene resin ~~consists of~~ comprises a boiled heptane insoluble polypropylene resin of from 50 wt% to 95 wt% and having a limiting viscosity ranging from $[\eta]0.5$ dl/g to $[\eta]9.0$ dl/g, and a boiled heptane soluble polypropylene resin of from 5 wt% to 50 wt% and having a limiting viscosity of more than $[\eta]1.2$ dl/g.

9. (Currently amended) The transparent polyolefin resin sheet according to Claim 1, wherein said transparent polyolefin resin ~~is~~comprises an ethylene-propylene random copolymer having an ethylene content ranging from 5 wt% to 30 wt%.

10. (Previously presented) The transparent polyolefin resin sheet according to Claim 9, wherein the proportion of ethylene-propylene random copolymer in a unit PPEP composed or continued four elements of ethylene (E) and propylene (P) has a racemic configuration for a continued part of PP that is extremely small.

11. (Currently amended) The transparent polyolefin resin sheet according to Claim 1, wherein said transparent polyolefin resin ~~is~~comprises a non-crystalline butene-1-propylene copolymer.

B 12. (Currently amended) The transparent polyolefin resin sheet according to Claim 1, wherein said transparent polyolefin resin ~~is~~comprises a compound of a non-crystalline butene-1-propylene copolymer and polypropylene.

13. (Currently amended) The transparent polyolefin resin sheet according to Claim 1, wherein said transparent polyolefin resin ~~is~~comprises a propylene-ethylene-butene-1 copolymer.

14. (Currently amended) The transparent polyolefin resin sheet according to Claim 1, wherein said transparent polyolefin-resin ~~is~~comprises a compound of a propylene-ethylene-butene-1 copolymer and polypropylene.

15. (Previously presented) The transparent polyolefin resin sheet according to Claim 1, wherein said transparent polyolefin resin contains a reactor blending type ethylene-propylene copolymer elastomer.

16. (Previously presented) The transparent polyolefin resin sheet according to Claim 1, wherein said transparent polyolefin resin contains a reactor blending type ethylene-propylene-butene-1 copolymer.

17. (Previously presented) The transparent polyolefin resin sheet according to Claim 1, wherein said transparent polyolefin resin is selected from at least one of an ethylene monopolymer and an ethylene- α -olefin copolymer.

18. (Currently amended) The transparent polyolefin resin sheet according to Claim 17, wherein said ethylene monopolymer is ~~at least one~~ selected from at least one of a high-pressure-produced low-density polyethylene and a low-pressure-produced low-density polyethylene.

Bl 19. (Currently amended) The transparent polyolefin resin sheet according to Claim 17, wherein said ethylene- α -olefin copolymer is selected from ~~a group consisting of:~~ a Ziegler-Natta catalyst type linear low-density polyethylene, a metallocene catalyst type linear low-density polyethylene, and an ethylene-octene copolymer having long branching in a main chain polymerized by using constrained geometry catalyst technology.

20. (Previously presented) The transparent polyolefin resin sheet according to Claim 1, wherein the transparent polyolefin resin is composed of a polypropylene resin different than said first polypropylene resin.

21. (Previously presented) The transparent polyolefin resin sheet according to Claim 20, wherein 2 wt% to 30 wt% of hydrogenated styrene-butadiene rubber is mixed into said transparent polyolefin resin.

22. (Previously presented) The transparent polyolefin resin sheet according to Claim 20, wherein 2 wt% to 30 wt% of an ethylene- α -olefin copolymer is mixed into said transparent polyolefin resin.

23. (Previously presented) The transparent polyolefin resin sheet according to Claim 20, wherein 2 wt% to 30 wt% of an ethylene-octene copolymer is mixed into said transparent polyolefin resin.

24. (Previously presented) The transparent polyolefin resin sheet according to Claim 1, the transparent polyolefin resin comprising:

B (a polypropylene type thermoplastic elastomer; and
an ethylene-vinyl acetate copolymer resin.

25. (Previously presented) The transparent polyolefin resin sheet according to Claim 24, wherein the content of said ethylene-vinyl acetate copolymer resin ranges from 5 wt% to 30 wt%.

